

Mel Ruderman, physics professor at New York University.
Photo by David Schaller

Ozone depletion a threat

By Gerald Radack

The stratospheric ozone layer, which protects life on earth from harmful ultraviolet rays is being threatened with stratospheric ozone has already causes, according to several experts.

Scientists say that very little is known about the ozone region, which is between 10 and 30 miles above the earth's surface, although it is believed to be important to the survival of life on earth. It now may be threatened by nitrogen oxide (NO_x) emissions from supersonic airplanes (SST) and nuclear explosions, by Freon from aerosol spray cans, and by chlorine from the proposed space shuttle.

Among the possible effects of a "large, long range" reduction in the amount of ozone in the stratosphere are mutation of airborne viruses, sterilization, vitamin D poisoning, climate changes, and interference with plant photosynthesis, Mel A. Ruderman told a seminar held by the MIT Center for International Studies on October 22. Ruderman is a professor of physics at New York University.

A one per cent reduction in stratospheric ozone has already occurred, according to Frank S. Rowland of the University of California at Irvine, and could cause 8,000 additional skin cancer cases this year.

A fleet of 500 SST aircraft

More BEOG funds available

By Craig Bura

The MIT Student Financial Aid Office will probably have little trouble giving away federal money through the Basic Educational Opportunity Grants program this year, according to the Associate Financial Aid Director, J. Samuel Jones.

Strict eligibility requirements and poor communication between students and the program administration resulted in \$45 million nationwide in unspent funds in 1974-75, the program's first year. Congress added the unspent funds to this year's appropriation, bringing the total funding to \$552 million.

The Basic Educational Opportunity Grants program provides students from low

flying eight hours a day would produce enough NO_x to reduce the ozone level by 16 per cent, causing a significant increase in skin cancer due to ultraviolet rays, says a report by Derek M. Cunnold and Fred N. Alyea of the MIT Meteorology Department research staff, which was released in August.

The space shuttle could also significantly reduce the ozone level, Ruderman said. Ruderman, said that one space shuttle flight per week would produce enough chlorine gas in the atmosphere to reduce the ozone level by five per cent in ten years. The chlorine causes a series of reactions to occur in which a molecule of ozone and an atom of free oxygen combine to produce two molecules of normal oxygen.

In a paper published in the September 27 issue of *Science*, scientists from the University of Michigan stated: "Calculations indicate that (compounds such as Freon) produced by man can greatly affect the concentrations of stratospheric ozone in future decades." They said that the normally inert Freon compounds are broken down by solar radiation in the stratosphere to produce chlorine, which then attacks the ozone.

Cunnold and Alyea are now working to apply the mathematical model of the atmosphere that they used for their studies of the proposed Supersonic Transport (SST) to determine the effects of Freon on the ozone.

layer. Cunnold told *The Tech* that although it will be another year before he will have any figures from the study, he believes that "the danger (from Freon destruction of ozone) is significant if we don't take some action."

Cunnold explained that if emissions of Freon compounds stopped now, things "would probably be ok." But if production continues until the year 2000, he warned that "the danger is quite significant."

After the ozone level is significantly lowered by Freon, it might take 30 years after Freon emissions stopped for the ozone to get back to normal, Cunnold warned.

Discrimination against women in the academic world extends so far as to modify the famous "Peter Principle" — the unofficial rule that says executives get promoted to the point where they are incompetent to do their jobs — the woman recognized as "the mother of Affirmative Action" told an MIT audience last week.

Bernice Sandler, a former congressional aide who discovered the provision which led to the establishment of Affirmative Action plans at educational institutions receiving federal funding, said that women are "stifled" in

their jobs due to lack of promotion opportunities.

Department, which has control over the hall, have used 26-100 for showing movies for years.

The recent review of fire regulations was prompted by a reform in the state law, turning authority for enforcement of the regulations over to city officials instead of state agencies, Fresina said.

"The state wanted to 'clean house' before they turned it over to Cambridge," Fresina told *The Tech*. "So they were checking out the possible violations in this area and making arrangements to have them corrected."

The review threatened the LSC's use of the hall for the last several weeks, according to LSC members. "For the last two weeks, we've been uncertain right up until the weekend on whether or not we'd be allowed to show films there," one member explained. "We'd be told at the last minute that it was ok, but only for another week, and so we'd have to worry about it again."

Loss of 26-100 would probably damage the LSC movies — the committee's main source of income — badly, members said. Kresge Auditorium, which is occasionally used for movies, is usually overscheduled and cannot be used on a weekly basis, and Room 10-250 is only about one-half as large as 26-100.

Fresina said that he saw no difficulties in LSC using 26-100 for the rest of this semester, while a review group studies the

problem of modifying the booth to bring it into compliance with the law. The group, which is composed of representatives of the Dean for Student Affairs, the Safety Office, the Department of Physical Plant, the Planning Office, and Physics, will recommend a number of alternatives for bringing the hall into compliance.

"We'll take the plans we have to the city of Cambridge and ask them what will be necessary to meet their standards," Fresina said. "Then we'll pick the cheapest plan that meets those standards and make the necessary changes."

Fresina stressed that the modifications might not have to involve physical changes. The city might not require changes at all, or might only request "operational" changes that would not involve physical modifications, the Director said.

"We're not going to tie up any money in making changes until we find out what the city is going to want to do," Fresina said. Although the Study group is reviewing possible ways of raising money for modifications, MIT's tight budgetary situation might make it difficult to invest the money for changes.

Fresina added that there is "no big clamor" on the part of state authorities on the issue of the booth. "Good faith" actions by MIT showing that the Institute intends to take care of the problem will probably be sufficient for the state, he said.

Women in labor: gains seen

By Sandy Yulke

Discrimination against women in the academic world extends so far as to modify the famous "Peter Principle" — the unofficial rule that says executives get promoted to the point where they are incompetent to do their jobs — the woman recognized as "the mother of Affirmative Action" told an MIT audience last week.

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Affirmative Action plans, under which educational institutions are required to set goals for hiring of women and minority employees, are helping to alleviate the discriminatory practices of academe, Sandler said. But

many "subtle but equally damaging" forms of discrimination, she said, are not being dealt with.

One subtle form of discrimination, Sandler said, was in promoting policies, where women are often promoted much less quickly than their male counterparts. Sandler claimed that women at any given level of job responsibility are often more capable than men on the same level, and often do more work than their male co-workers, because promotion for women is so much slower than promotion for men.

Sandler said that such discrimination was illustrated by the position of "administrative assistant," which is usually held by a woman who is "vitally important" to operations of an office. Although the assistant is necessary to ease work of executives or researchers, Sandler said, she is not usually paid commensurate to her responsibilities.

Women have had some success in gaining perquisites from academic employers in recent years, Sandler said. Salary adjustments and loosening of regulations in areas such as maternity leave have been made due to Affirmative Action and other equal opportunity programs.

Sandler added that "backlash," a feeling by white males that women have an advantage in hiring and promotions, is not founded in fact, since statistics show that the number of women in executive and academic positions is declining on many levels.



Bernice Sandler speaks at AWS/WISE meeting.
Photo by Richard Reihl

Sea-law negotiations complex

By Greg Erwin Lemke

"The negotiating points involved in the International Law of the Sea Treaty are exceedingly complex and often tedious, but their resolution is vital to the interests of all the participating parties."

This was the opinion expressed last Friday by Bernard Oxman, Assistant Legal Adviser for Ocean Affairs for the Department of State and a US delegate to the recent international Law of the Sea Conference in Venezuela, speaking on "The Law of the Sea; Prospects for the 1975 Geneva Convention."

Oxman discussed the current status of the negotiations, which are a continuing series of conferences dealing with a variety of maritime issues and designed ultimately to produce a new International Law of the Sea Treaty.

Referring to the points of contention, he noted that the major negotiating obstacles are those generated by "internationalist vs. nationalist" or "developing vs. industrialized" positions. In Oxman's view, these obstacles are substantiated by the desire of both camps to

produce a new treaty.

Oxman characterized present negotiating thrusts as aimed at "complete review and radical revision" of the present universally deemed insufficient, which was drafted in 1958 as a codification of the laws already in existence.

He outlined the various points of contention and the relative positions taken by nations on them, including:

1) The extension of national economic zones to 200 miles. This action has already been taken unilaterally by several South American nations. According to Oxman, the "developing nation bloc" tended to support this action most strongly, in that it allows for extended, exclusive economic growth.

2) Development and exploitation of deep seabed resources. Oxman asserted that this was the most difficult issue of the conference, with industrialized nations favoring private-contract exploitation, and developing nations favoring development and exploitation by an organization international in nature. Deep seabed resources include

manganese (in easily collected nodules), nickel, cobalt, and copper.

3) Extension of territorial coastal limits from 3 to 12 miles. This point was hotly contested by the big nation bloc in that several of the world's most important waterways would fall under complete territorial jurisdiction under this proposal.

4) Erosion of freedom of navigation. This was raised by the industrialized nations in an attempt to "enact laws restricting the rights of any state to interfere with free navigation."

5) Establishment of International sea pollution standards. Smaller states tended to oppose such standards on the grounds that they force nations to have their ships built in the shipyards of industrialized nations.

6) Exploitation of coastal seabed resources by nations other than the coastal nations under whose control the seabed falls.

7) Scientific research in economic coastal areas. The developing nations favored such research, but lobbied for coastal nation jurisdiction over such research.

Despite these and other obstacles, Oxman sees possible resolution through continued negotiation.

"Whether it will succeed or won't succeed is a question mark," he said. "I think it can."

NOTES

* Ms. Ronna Toba, a practicing engineer from Xerox Corporation, will be on the MIT campus Friday, November 1st, to discuss careers for women in engineering at 3:00pm in the Graduate School Office, Room 3-136. She will also be available for individual conferences in the Graduate School Office at other times today. To make an appointment, please sign up on the sheet posted on the Bulletin board outside Room 3-136.

* "How Individual Choices Are Made When Having Children - and the Effects of these Choices upon the Environment" with Bea Hicks, President of Zero Population Growth of Massachusetts will be the topic of discussion of Today's Women (Women's Discussion Group) on Thursday, November 7 at 8:00pm in the West Lounge of the Student Center. The

event is sponsored by the Technology Wives Organization and is open to the MIT community. Husbands are invited.

* Over 75,000 Harvard University Press books on subjects from art to zoology will go on sale at 40 to 90% off during Harvard's Book Harvest, Thursday, Friday, and Saturday, November 7-8-9, in Harvard's Science Center at 1 Oxford Street, Cambridge (just north of Harvard Yard). The sale will run from 10am to 9pm all three days. On Saturday night (November 9) there will be a lottery; the winner will receive \$50 worth of Harvard University Press books of his choice free every year for life! Anyone attending the sale is eligible to win by filling out a card and dropping it into the giant drum from which the winner's name will be drawn at 8pm.

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In Case of Insomnia—

President's Report

By Storm Kauffman

It is my turn to tackle the "Report of the President and the Chancellor, 1973-1974," now that I let McNamee have first crack (Oct. 25).

First, some literary criticisms. Much of the report is written in the usual gushy public relations language to be expected of such a document. However, the section describing MIT research accomplishments was out of place: while interesting, the technical material introduced unnecessary complication in what should have been a brief description of where MIT has been and where it is going. Additionally, I find it hard to abide the insipid and unnecessary captions on the pictures.

Now, down to content. I will concentrate on the appendix section, which dealt primarily with Institute statistics.

As an engineer, I find the drop in the relative number of engineers to be distressing — I (and outsiders I have talked to) have always felt that MIT is the premier engineering school in the country. While MIT is not about to let its engineering school atrophy, perhaps the Institute should take a more active role in promoting engineering. Though already busy in this area, further pushing might even bring more research money. The growth of the School of Science, though at the expense of engineering, has been a good trend, but it is probably due to the increasing number of premeds. The drop in Management majors (the absolute number has been essentially constant, as is true for engineering) is surprising in the light of the increasing management role which MIT graduates play (something like 50% of MIT engineers wind up in supervisory positions within ten years). The increasing number of undesignated students may show a tendency to be more honest about not having goals; the Institute should not force students into majors just for the sake of putting them some place.

As a male, I have been pleased to watch the results of the increasing percentage of women on campus (nothing implied there). The efforts to bring qualified women and minority students to MIT must continue: MIT has too long presented its students with an unreal picture of the world and its people. The failure to significantly increase minority enrollment is possibly indicated by the omission of any statistics dealing with this area.

As a less than millionaire, the increase in the four-year student budget is somewhat knee-quaking. Granted there has been a significant nationwide inflation and the budget/salary ratio has been constant, but still \$18,000! And where do they figure \$18,000 for four years, or a median starting salary offer of \$3800 in 1951?

As a student, I am impressed that there is one tenured faculty member for every 8.91 students (even though all of them don't teach some of the time, and none of them teach all of the time).

As someone in search of a job, I was overjoyed that there has been "a continued upswing in the demand for MIT graduates in most fields of study." Engineering is the strongest area as the supply of graduates in quite a bit less than the demand.

It is amazing that MIT is able to garner \$22 million a year in gifts, grants, and bequests. The surprise is not that people give money to MIT, but rather that they give it to anyone. However, it is this area that is most important to MIT. The Institute will continue to suffer fiscal troubles if the administration does not succeed in obtaining more of these funds. For all of our sakes, let us hope they are successful.

THE WIZARD OF ID



Jack Anderson

Pentagon drafts race war plan

© United Feature Syndicate, Inc.

By Jack Anderson

Washington — Pentagon strategists are quietly formulating plans that could conceivably drag the United States into an African racial war. Here are the inside details:

Most of the oil consumed by the West is shipped in tankers which steam through the Indian Ocean and around South Africa's Cape of Good Hope. The Soviet Union has been building up its fleet in the Indian Ocean and defense planners now believe the Kremlin could easily disrupt the tanker traffic.

Thus, the United States, in concert with its NATO allies, is proposing to defend the "Cape Route" from the alleged Russian threat. Such plans would undoubtedly require the cooperation of white-ruled South Africa.

NATO officials admitted several months ago that "contingency plans" were being drawn up. Recent reports from South Africa, furthermore, tell of naval visits by the British and French. And US officials are reportedly discussing plans to use South African port facilities.

Once military cooperation is established, NATO could eventually be drawn into South Africa's escalating racial squabbles with its black neighbors.

There is a strong possibility, however, that the "Cape Route" issue is a bogus one. A recent United Nations report, classified confidential, traces the controversy back to conservative NATO officials who for years have been looking for an excuse to include South Africa in the western defense system.

The UN document, compiled by consultant Sean Gervasi, concluded: "The debate about the Cape Route... is actually a smokescreen for hiding the real motives of those who organized it."

A secret US foreign policy document on Southern Africa, National Security Study Memorandum 39, bluntly acknowledges that South Africa "hopes to use the small but persistent Soviet naval presence in the Indian Ocean as a basis for some sort of collaboration with the US... with resultant increased US naval presence in the area and use of South African ports."

Finally, there is the testimony of no less an authority than Central Intelligence Agency Director William Colby. In a closed-door session with a congressional committee two months ago, he described the Soviet presence in the Indian Ocean as "relatively small and inactive."

There was little chance, Colby added, that the Russians would increase the size of their fleet in those waters unless the United States did it first.

No Deal

Perhaps some times investigative reporters should give the public a report on a scandal they have failed to find.

We have been bombarded with inquiries, for example, about Richard Nixon's presidential pardon. Many suspicious Americans refuse to believe President Ford's explanation before the House Judiciary Committee that he thought the pardon would close the book on Watergate. They suspect there must have been a deal between Nixon and Ford.

For several weeks, we have been searching for evidence of such a deal. We have questioned trusted sources who are close to both Nixon and Ford. One source was actually present at San Clemente during the discussions that led to the pardon.

But if there was an advance agreement between Nixon and Ford, we have found no evidence of it. We haven't uncovered one document, we haven't located one witness, with information about a Nixon-Ford deal.

In the absence of any evidence to the contrary, we will accept President Ford's word that he pardoned Richard Nixon because he thought it was the right thing to do. We question Ford's judgment, but we have no reason to question his integrity.

Nato Communists?

Secret intelligence reports warn that two Western nations, both members of the Atlantic Alliance, are in danger of a Communist collapse. The Communist party is emerging as the country's strongest, most disciplined political group.

Intelligence reports note that the Communists are also highly sophisticated. They have toned down the inflammatory propaganda of the past and are proposing instead a foreign policy that would be neither anti-American nor anti-Soviet.

The intelligence reports predict that the Communists will begin to share power with the ruling Christian Democrats and then will gradually increase their power.

In Portugal, the Communists have come out of hiding as the best organized, most powerful political faction in the country. Already they are moving into position of power in the new government.

The intelligence reports warn that US base rights in Portugal's Azores islands already are in jeopardy.

Klassen Clamor

In the days of the Pony Express, it took four days to get a letter from coast to coast. Today, 100 years and \$100 billion later, it still frequently takes four days.

The postal problem is a complicated one, but much of the responsibility for it

can be laid on the man who runs the shoe, Postmaster General Elmer "Ted" Klassen.

Klassen is under investigation by the FBI for accepting a fee from a postal contractor, a story first reported in our daily column. And a congressional committee recently put Klassen's cronies under oath and discovered that the embattled postal chief had not been candid about his role in a number of post office contracting boondoggles.

These and other charges have raised a clamor for Klassen's removal. Rep. Morris Udall, D.-Ariz., has already asked Klassen to step aside. Udall's call for Klassen's head will soon be taken up by some of the congressman's Postal Committee colleagues.

In an attempt to hang onto his post, Klassen has launched a counter-attack. But the handwriting is on the wall. Our sources say he will be pushed out by the end of the year.

Continuous News Service

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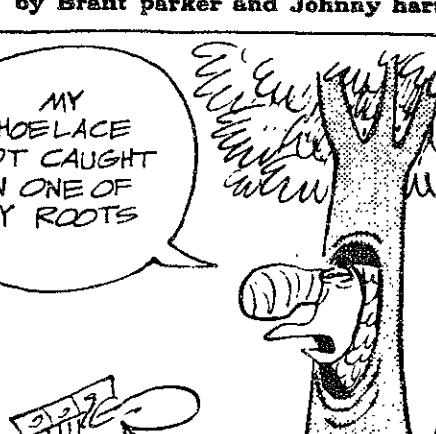
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by Brant Parker and Johnny Hart



The Wizard of Id appears daily
and Sunday in the Boston Globe

A Heartbeat Away: The Investigation and Resignation of Spiro T. Agnew.

By Richard Cohen and Jules Witcover.

The Viking Press; 363 pp; 8 pp of pictures.

In the rush and noise of the last two years of the Nixon Presidency, many things going on in America were overlooked. The failing state of the economy, the energy crisis, and a number of other issues all were ignored or slighted while the country went through the painful process of purging itself of the Watergate crew.

Surprisingly, some things that did not receive the attention they deserved because of Watergate were directly related to the Watergate scandal. The main item of this type would have to be the investigation and resignation of Spiro T. Agnew, former Vice President of the United States.

Agnew's story had never been told fully. Because of the tight prosecutorial secrecy that wrapped the investiga-

tion, and because the events associated with the resignation were swamped ten days later by the 'Saturday Night Massacre' when Nixon fired Special Prosecutor Archibald Cox and accepted the resignations of Elliot Richardson and William Rucklesaus, the criminal investigation that brought Agnew down had been fully explored. But now there is a book to remedy that:

Written by Washington Post Jules Witcover and Richard Cohen, *Heartbeat* is an exciting account of how four young prosecutors from the US Attorney's Office in Baltimore began and carried on an investigation of corruption in the State of Maryland — where corruption was almost as prevalent as the blue crabs for which the state is known. Beginning with "small fry" in the Baltimore County executive's office, they worked their way up until they were told by an engineer who had bribed state officials for contracts, that he personally had bribed the Vice President in Agnew's office in the Executive Office Building.

The behind the scenes machinations after this are the most interesting part of the Agnew story. Cohen and Whitcomb

have reported most of the dealing fully and clearly. The prosecutors, when they found themselves on the trail of a sitting Vice President, notified Attorney General Elliot Richardson — a move, one is lead to believe, that some of the prosecutors later regretted. Richardson then told the White House, and began dealing with Nixon lawyer Len Garment and White House Chief of Staff Alexander Haig — the man responsible, ten months after Agnew's resignation, Nixon's.

The White House role in the Agnew case is intriguing; unfortunately, this is one point where the reporters are not at their best. Nixon, suffering from his own scandals and not wishing to bear the additional burden of Agnew's plight, clearly wanted to get rid of the Vice



President. But he was blocked by two things: the powerful Agnew conservative constituency that Nixon could not afford to alienate by publicly cutting the Vice President, and the looming spectre of his own removal from office. Although the impeachment bandwagon that eventually brought down Richard Nixon was not truly started until after the Saturday Night firings, the President could not afford to weaken his own base, even to rid his Administration of the Agnew scandal.

The plea bargaining behind the scenes — where Agnew, who was telling cheering Republican crowds, 'I will not quit,' was bargaining away his office to stay out of jail — are reported fully, which is, on the whole, a wonderful piece of reporting. Whitcomb and Cohen appear to have discussed the case's aspects with all the principals — with the notable exceptions of Nixon and Agnew — and have explained the positions taken by the opposing teams of lawyers during the long months of August and September.

If anything is lacking from this book, it is the treatment of the issues behind the case — the political question, illustrated

Litterae is a literary page and is not a work of The Tech Arts Section.

in three cases in the past two years, of how Vice Presidents are chosen; the legal and moral questions of plea bargaining; and the questions of the role of the press in covering an investigation as sensitive as this. Although Cohen and Whitcomb do not fully answer these and other questions, they do provide a basic outline for examining the affair that is both useful and entertaining.

Mike McNamee

things) for the English language editions of *Perry Rhodan*, and incidentally, does own the world's largest collection of horror films.

The result of all these real-world people cropping up in Herovit's world is to seriously weaken the thrust of the novel. Malzberg wants to write about the problems of a 37 year old hack with a writer's block, but he can't help throwing in a few digs at the science fiction world. He can only do this by having Herovit associate with SF fandom. Yet part of Herovit's problem is that after 92 novels he is himself still an unknown man — he doesn't even know himself. By writing about SF fandom, Malzberg seriously comprises his character.

Despite this flaw, though, the book on a whole is well executed. Herovit as a person comes alive; he is a person of enough depth that his shallowness can be tragic, and of enough realism that his story, for the would-be novelist, can be terrifying.

Guy Consolmagno

Khrushchev Remembers: The Last Testament
Introductions by Edward Crankshaw and Jerryold Schechter

Translated and Edited by Strobe Talbott
602 pages many photographs clothbound
Little, Brown & Co. 1974

"I'm a free cossack. I have nothing to do. A pensioner's lot is simply to exist from one day to the next — and to wait for the end." Thus begins Strobe Talbott's presentation of the last of Khrushchev's taped memoirs. I call it a presentation, because the tapes were less organized. Three introductory remarks are concerned with the ordering of material and the authenticity of the tapes. The introducers make it clear that voice printing analysis has been used on every foot of tape. Talbott explains his ordering, "I have imposed a structure where there was none... I have tried to preserve what Khrushchev calls 'the substance of my viewpoint' — to convey not only the letter of what he said but also the spirit in which he said it." People who wish to check this out are given thirty-six pages of the original Russian transcript and are told that the Oral History Collection of Columbia University has the tapes, original transcripts and the voice-printer's report.

I haven't read the first volume of the memoirs. I can't discuss continuity between the two. The present book is divided into two parts, *Citizens and Comrades* is first and slightly longer than *Foreign Policy and Travels*. The parts are divided into subject headings which have subdivisions. This fragmentation makes it very easy to skip around to the choice tidbits, like "Nixon and the Kitchen Debate."

Now we come to the inevitable samples:

Creative Intelligentsia: "I didn't particularly care for Solzhenitsyn's second book, *Matryona's Home*... I'd say it's... a matter of mood. Shostakovich, for whom I've always had the greatest respect... — I'd say our greatest composer... we couldn't understand why he spoke out in favor and support of jazz. I don't care much for jazz. In general I consider Yevtushenko a talented poet and a good man."

"I'm dictating my memoirs for theoreticians, for experts on politics and economics, who will be able to draw the correct conclusions from what I've said... I'm convinced that if this record of my long life and considerable political experience comes into the hands of objective, courageous scholars, they will find more than a few grains of truth in what I have to say.

Everything I've said in my memoirs, I say as a Communist who wants a more enlightened Communist society — not for myself, because my time has already come and gone, but for my friends and for my people in the future."

This is a mass distribution book. Sections of commentary which would be totally boring to the general reader have been deleted. It is very readable and gives a sense of presence. Perhaps Khrushchev is too charitable with himself in places, but this retrospective is undeniably fascinating.

Write? Interested in reading your work to an audience of interested people — other writers (and readers) from around the Tute? Come to the Open Reading, in 14E-304 Thursday, Nov. 7, from 3:00 to 6:00. Wine will be served — along with poems, short stories, and whatever you bring to read.

And sign up for the Expanded Reading Series, at the Writing Program Office, 14E-310b. When enough people have signed up, a reading will be held on the first available Wednesday, at 3:30, in 14E-3104. (Again wine will — hopefully — be served.)

For further information contact Ken Skier (x7894) or Tom Spisak (x3916) or stop by the Writing Program Office.

Litterae

Herovit's World

By Barry Malzberg

Pocket Books 95 cents 160 pp.

On first glance, Herovit's World is not a science fiction as about science fiction. On second glance, it is not even that; it is just a very solid novel not about a field of literature, but about one man.

Jonathan Herovit is a pulp writer, author of 92 science fiction novels featuring Mack Miller, hero of the Galactic Survey Team, dedicated to destroying all aliens and rebuilding the universe in the image of Man. All of these books were written under the pseudonym of Kirk Poland; like everyone else in the field, Herovit is saving up his own name for the great novel he's going to write some day.

But some day isn't today; and today, he's 37, living in a four room apartment in an unpleasant part of Manhattan, with a wife who can't stand him and a six-month old daughter neither of them want. And he is a month overdue on his 3rd Mack Miller epic. He's already spent his advance on the novel, and borrowed against the rest.

One night, stuck on the 42nd page of the most atrocious stuff he's ever written, swallowing in Scotch and despair, his alter ego Kirk Poland appears. "You must admit you've pretty much reached the end of your devices," says Kirk. "I've been doing the work for 13 years, keeping you afloat; now you can give me a crack at the other stuff, too."

Herovit resists; his resistance weakens; he gives in. Kirk Poland takes possession of his body. Filled with new life, Poland resolves to destroy Mack Miller, his agent, and his wife's sexual problems with the same alacrity that Mack Miller would the countless aliens the Survey Team has encountered. Somehow, it doesn't work out... his wife leaves him; his agent begins to catch on that poor Herovit/Poland has gone off the deep end; and even though the 42 pages of Mack Miller's latest incarnation have been ripped into halves and quarters and eighths and burned, Mack himself doesn't go away. It seems he wants control of the body, too. And, as 92 novels can attest to, what a member of the Survey Team wants, it gets.

Now firmly in command of the situation, Mack Miller strides forth one last time to meet the countless, faceless aliens of Manhattan Island, until they finally overwhelm and destroy him; to hit, he is run over by a truck.

The novel is not tremendously powerful or even startlingly original, but it is solid and competently written. Malzberg employs a breezy and easily read style which is similar to Vonnegut's without being a carbon copy of it. One effective device is that the story is written in the present tense throughout, adding a feeling of immediacy and forcing on the reader the lack of perspective which is Herovit's problem.

Sports

IM soccer playoffs begin

Late Saturday afternoon the dust cleared over Briggs Field, and four teams emerged as semifinalists in this fall's IM soccer tournament. The Viano Cup, emblematic of the A-league soccer championship, will be awarded to the survivor of the two semifinal games Saturday and Sunday's final showdown.

At the end of regular season play, four A-league and four B-league teams qualified for the single elimination tournament. The A-league teams were Hellenic, Africans, Aero/Senior House, and Math, while the B-league representatives included LCA, Baker, Delta Psi, and 1169 (Chinese Students Club). The A-league teams consisted mainly of graduate students as opposed to the B-league squads which were almost completely undergraduate.

In last Saturday's quarterfinals all the B-teams lost, but not without putting up a struggle. LCA was barely nudged out by Math, 1-0, and Delta Psi led at halftime only to be thwarted in the last ten minutes by Africans, 3-1. Meanwhile, Aero/Senior House drubbed a hard-fighting Baker team, 3-0 and Hellenic steamrolled 1169, 4-0.

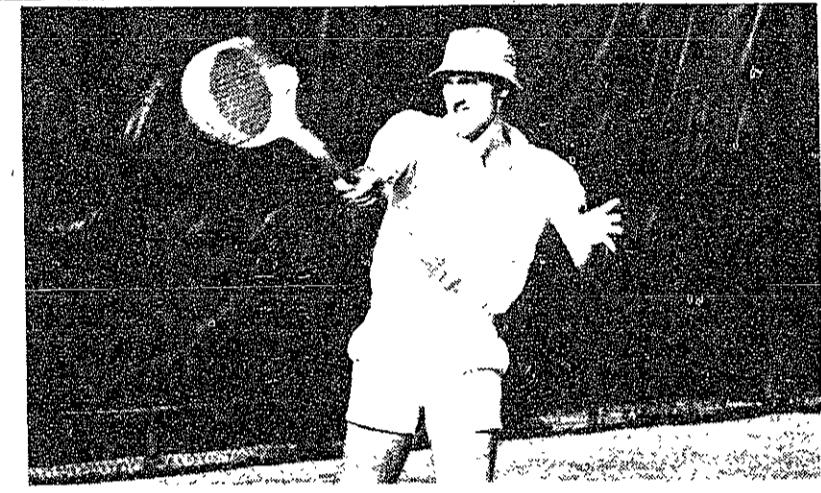
This Saturday's semifinals will match Africans against Aero/Senior House and Math against Hellenic. Of the semi-

finalists, Africans, Hellenic, and Aero/Senior House each have a formidable offense, and the difference in each's performance will be in how their relatively untested defenses and goalies can respond. Math has a dominant halfback line and relies heavily on defense, as is shown by its 0-1-4 regular-season record, three of its deadlocks being 0-0 battles.

None of the tournament games can end in a tie, however.

In semifinal action, a ten-minute sudden death overtime would be followed by a penalty kick contest as a final tie-breaker. In the championship contest, extended sudden death is played until a goal is scored. Last year's final ended in the 44th minute of overtime with Hellenic edging Africans, 3-2.

Saturday's A-league semis will be played at 11:00am and 12:15pm, with the Viano Cup showdown taking place at 12:30 pm Sunday.



MIT's No. 1 singles player, LeRoy Simpson '75, compiled a 2-2 match record this fall as well as reaching the quarterfinals of the Brandeis tournament. He also combined with Jim Datesh '77 to form the Engineer first doubles team which went 3-1 in fall competition. The team as a whole could not match Simpson's and Datesh's efforts, however, winning only one of four matches, that being a 5-4 squeaker over Brandeis. Only a final-point tiebreak win in the final set of that match averted a winless season for MIT's netmen. Photo by Richard Reihl

IM volleyball standings

A1 league	W	L
*Baker 'A'	5	1
*Bexley	4	2
*Hellenic Ath Club	4	2
Beam Balls	3	3
Economics 'A'	1	5
Lambda Chi Alpha 'A'	1	5

A2 league	W	L
*Persians	5	1
*Volleyball Club	5	1
*Math	4	2
Phi Beta Epsilon	2	4
Sloan 'A'	2	4
Theta Delta Chi 'A'	0	6

B1 league	W	L
*Baker 'B1'	5	0
Aero-Astro	4	1
Ashdown '1'	3	2
Baker 'B3'	1	4
Pi Lambda Phi 'B'	1	4

B2 league	W	L
*Alpha Tau Omega 'A'	4	1
*Alpha Epsilon Pi '1'	4	1
Chi Phi '1'	4	1
Burton '1'	2	3
Burton 3rd Bombers	1	4
Charcoal	0	5

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Sports

Team Trophy won by varsity sailors

MIT's men's varsity sailing team won the Staacke Team Racing Trophy this weekend, beating second place URI in two of three play-off heats.

MIT is traditionally known for excellence in team racing, as exemplified by alumnae Steve Cuchiari '75 and Terry Cronberg '62, who have both won the Prince of Wales Trophy, the North American Amateur Team Racing Championship.

The Staacke Trophy is a 3-team racing trophy. This means that each school enters a

Sporting notices

Team entries for this year's IM cross country meet, to be held on Sunday, November 10 at 11:00pm are due in the IM Managers' Office, W32-121, by 5:00pm on Wednesday, November 6. Individual entries will be accepted until ten minutes before the starting time. Awards will be given to the winning team as well as to the first 15 male and the top five female finishers.

* * * *

The 1974 fall IM cycling meet will be held Saturday, November 9, at a location just east of Belmont. Registration forms should be returned to the IM Managers' Office, W32-121, by 5:00pm on Friday, November 8, but late registration will be accepted at the starting point of the race.

* * * *

Rosters and entry forms for this year's IM hockey program must be submitted to the IM Managers' Office, W32-121, by 5:00pm on Friday, November 8. No late registration will be accepted.

* * * *

Formal practice for the women's varsity basketball squad will begin today at 5:00pm in the duPont Gym. All interested players should report dressed and ready to play.

* * * *

This year's IM basketball season will begin Monday, November 4. Schedules may be obtained in the IM Office, W32-123.

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Tourney ends IM tennis

By Paul R. Giguere

A singles and doubles tennis tournament staged last weekend on the duPont Courts and in the Carr Indoor Tennis Center ended the IM tennis season with the Chemical Engineering team gaining top honors.

Mike Rudenko '77, playing for Senior House, won the singles title over forty other entrants, while the Sloan team of Lawrence Judelson G and Charles Holcomb G topped twenty-two pairs to capture the doubles crown.

The Sunday afternoon finals climaxed the two-day tournament which by Saturday afternoon had evolved into a two-team battle between Chem E and last year's titlists, Sloan. Jim Keeler G clinched the trophy for Chem E by defeating Stu Traver G of SAE 6-1, 7-5 in the upper bracket semifinals on Sunday morning. Rudenko advanced into the finals via a 6-2, 6-4 win over Nigel Curlet G, also of Chem E.

The 4-6, 6-2, 602 final round win for Rudenko marked a rare singles victory for an undergraduate in a tournament normally dominated by graduate students.

The Sloan doubles team of Judelson and Holcomb entered the finals by virtue of a 6-3, 6-2 rout of Hal Hindman '77 and Mike Gugenheim '77 of Theta Xi, while the Chem E duo of Reg Mitchell G and Guy Chisolm G won its semifinal test over Pollock-Taylor of DTD, 7-5, 6-4.

The Sloan victory in the finals (6-4, 6-2) was not quite enough to push them ahead of Chem E, winners by a 13-11 margin. (One point is awarded for every round a player or doubles team advances.) Senior House (8), Student Center Sleepers (6), and DTD (5) followed in the tournament standings.

For three weeks prior to the tournament, 66 teams engaged in team play which consisted of three singles and two doubles

matches. This year marked the introduction of the nine-point tiebreaker to decide sets and the new no-ad game scoring system (first to reach four points wins).

Only two A-league teams entered the tournament undefeated in regular season play, Sloan and Student Center Sleepers (Chem E forfeited a match to SAE). In B-league, Baker 1, Tang, ZBT, DTD, Chem E 'B', and Nuclear E 2 went without a loss, while in C-league, East Campus W2, Burton-Conner 5, TX, SC, Delta Psi, MacGregor H Turkeys A, and Burton 3rd Bombers were undefeated in team play.

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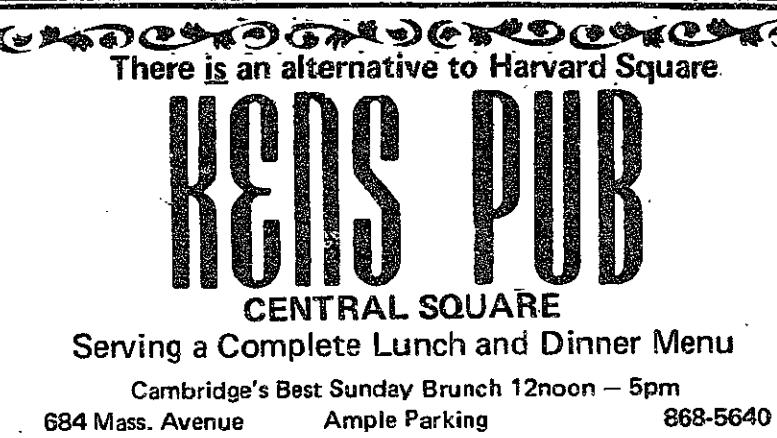
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More volleyball standings

(Continued from page 6)

	C5 league	W L	C7 league	W L
**MacGreg H Turkeys 'B'	5 0	**MacGreg E Team 'A'	6 0	
MacGregor A	4 2	Baker 'C1'	4 1	
Theta Xi	4 2	Burton 5	3 2	
East Campus '4E'	2 4	Alpha Tau Omega 'B'	3 3	
Kappa Sigma	2 4	Phi Beta Epsilon '2'	2 4	
Senior House	2 4	East Campus '5W'	1 5	
Burton 3rd Bombers	1 5	Sloan 'C'	1 5	
		C8 league	W L	
		**Sigma Chi	6 0	
		Theta Chi	4 2	
		Conner 3	5 3	
		Phi Sigma Kappa	3 3	
		MacGregor E Team 'B'	3 3	
		Baker 'C2'	2 4	
		Student House	0 6	
		*Qualified for A playoffs		
		**Qualified for C Playoffs		

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The Head of the Charles — 1974



Pictured above is one of MIT's entries in the Intermediate Fours competition. From the top are: bow-Richard Dykstra '77, 2-Tom Scheibley '76, 3-Jack Van Woerkom '75, stroke-Carl Wales '76, and cox-Tom Strat '77.



MIT 2nd in yearly regatta

By David I. Katz

With second place finishes in the Elite Fours and Lightweight Eights competition, and a fifth in the Elite Eights, MIT placed an admirable second overall in the 1974 Head of the Charles Regatta. First place was captured for the third year in a row by Harvard, while Princeton edged out Yale for third.

The overall winner of the Head is determined by a formula, which takes into account the number of entries in each event, the finishing place in the event, the number of entries from the same organization, and the points assigned to each event. The end result of this is that a club or school can win by being very good or very large. Harvard is both. Thus, it seems that

MIT's chances of regaining the Paul Revere Trophy (last won in 1965) will remain slight in the face of the continued Harvard dominance.

The regatta itself is a three-mile race upstream against the clock. This year the distance seemed even longer as there was a head wind that sometimes gusted to 20 knots. In spite of this, the 1974 World Rowing Champions won the prestigious Elite Eight event in a time that was only half a minute slower than the course record. The MIT heavyweight varsity was only 50 seconds behind in fifth place.

The MIT lightweight varsity appeared to be doing well as they steamed under the Weeks foot bridge. They had passed last year's winner, Princeton, and were opening up to a longer and longer lead. Farther back in the pack, however, the Harvard varsity were also passing many slower boats. The Crimson were clearly the class of the event, winning by almost 13 seconds.

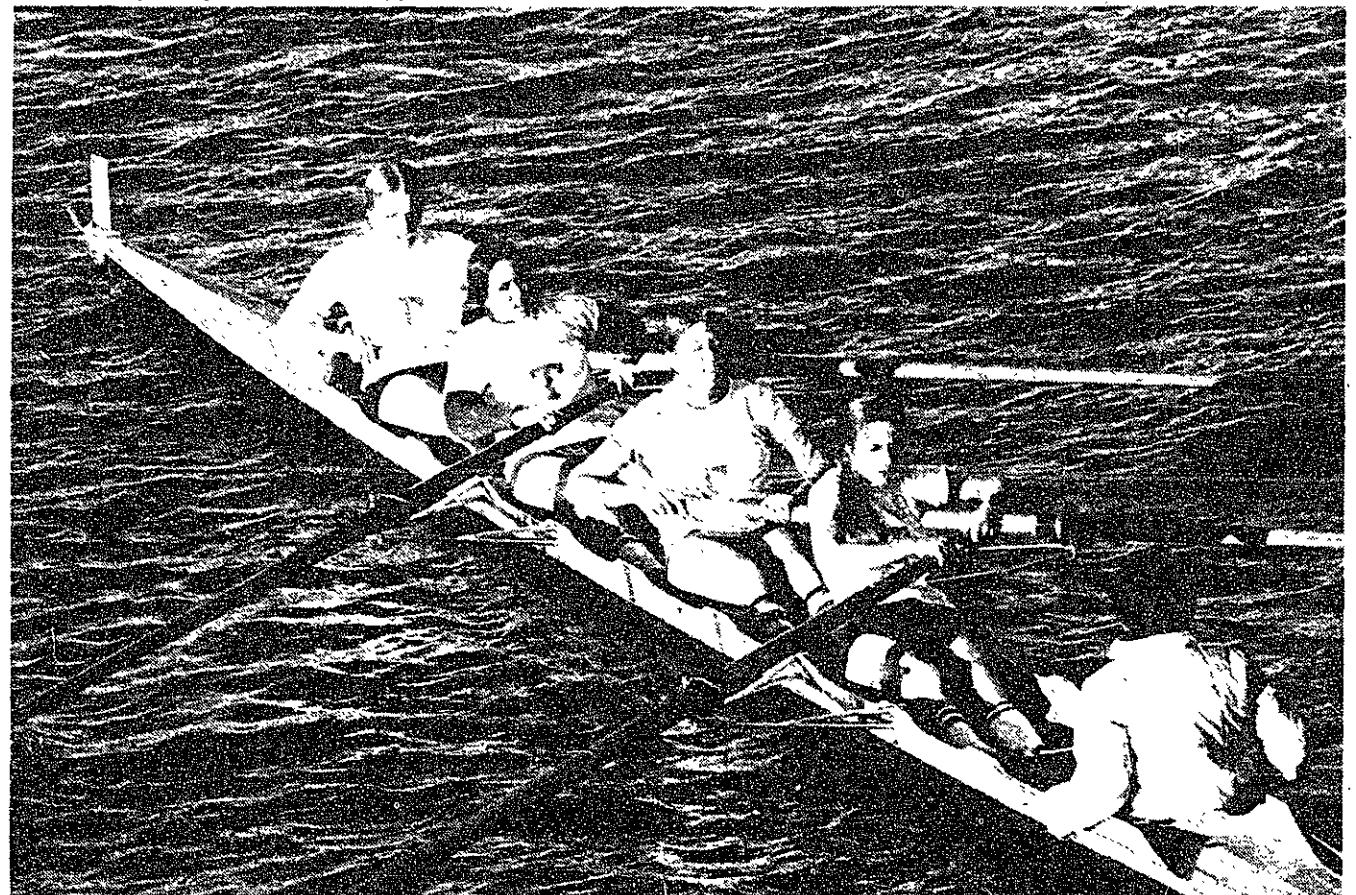
The MIT Elite Four entry (bow-Peter Beaman '76, 2-John Everett '76, 3-Jim Gorman '75, stroke-Gary Piantedosi '76, and cox-Mike Newman '76) gained the dubious honor of having the closest second place of the year as they were only half a second out of first. Again, the winner was Harvard. MIT's women's varsity finished seventh in spite of losing approximately 20 seconds in a collision while passing the boat in front of them.

So, while failing to win an event, the Engineer oarsmen performed very well overall, foreshadowing a fine spring season of racing at MIT.

Photo credits, clockwise from top left: Charles Merrill, Dave Green, Dave Green, Charles Merrill, Dave Green.



The collision above was very disastrous for the fortunes of MIT's Bob Sherrill '75 and Dave Campanella '76 (at top), preventing them from finishing higher than 27th in the Pairs race. MIT's female entry in the Lightweight Fours competition (bow-Sue Thomas '76, 2-Barb Miglierina '76, 3-Diane McKnight '75, stroke-Jenny Glendinning '75, and cox-Sandy Tong '78) placed 41st overall but was only five spots behind the fastest women's boat.



The stats:

	Pts.
1st Harvard	614.8
2nd MIT	427.7
3rd Princeton	352.4
4th Yale	347.5

Double Sculls (24 boats)

1st NYAC	17:38.9
----------	---------

9th MIT	21:40.4
---------	---------

Light Eights (29 boats)

1st Harvard	16:33.8
-------------	---------

2nd MIT	16:46.6
---------	---------

24th MIT	18:21.7
----------	---------

Elite Fours (26 boats)

1st Harvard	17:37.8
-------------	---------

2nd MIT	17:38.3
---------	---------

Novice Singles (50 boats)

1st Wakeman	22:16.7
-------------	---------

36th Holm, MIT	26:43.2
----------------	---------

38th Greene, MIT	26:54.4
------------------	---------

Intermediate Fours (46 boats)

1st BU	18:29.2
--------	---------

17th MIT	19:51.1
----------	---------

23rd MIT	20:14.5
----------	---------

36th MIT	21:39.8
----------	---------

Junior Eights (35 boats)

1st Fr. Judge High	17:02.5
--------------------	---------

8th MIT frosh heav	17:53.4
--------------------	---------

13th MIT frosh heav	18:15.5
---------------------	---------

25th MIT frosh heav	19:18.8
---------------------	---------

27th MIT frosh heav	19:33.7
---------------------	---------

34th MIT frosh lite	20:51.0
---------------------	---------

Pairs (30 boats)

1st Mixed Entry	19:15.1
-----------------	---------

27th MIT	24:34.6
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30th MIT	27:22.1
----------	---------

Intermediate eights (48 boats)

1st Syracuse	16:44.4
--------------	---------

7th MIT JV heavy	17:07.6
------------------	---------

39th MIT frosh lite	19:09.6
---------------------	---------

42nd MIT frosh lite	19:34.3
---------------------	---------

Light Fours (46 boats)

1st Harvard	18:43.7
-------------	---------

14th MIT var light	19:42.5
--------------------	---------

21st MIT var light	19:58.7
--------------------	---------

29th MIT frosh lite	20:40.6
---------------------	---------

41st MIT women	23:21.2
----------------	---------

Women's Eights (44 boats)

1st Vesper	18:24.4
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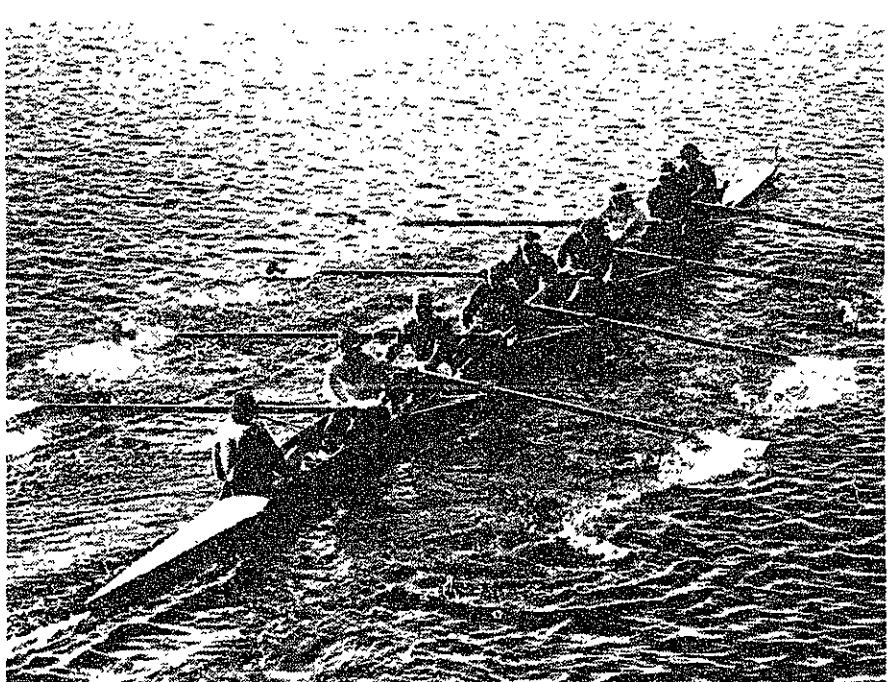
7th MIT	20:13.8
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24th MIT	21:41.3
----------	---------

Elite Eight (23 boats)

1st World's Champ	15:36.0
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5th MIT var heavy	16:24.9
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One of five MIT boats in the Junior Eights race won by a crew from Father Judge High School.